

# NARRAGANSETT WWTF

**N**arragansett's wastewater facility began operations in 1965; in 1983 and again in the mid 1990's, the town substantially upgraded its facility. Like Jamestown, Narragansett's design employs extended aeration, or in this case "oxidation ditches" to biologically treat its wastewater. Located just south of Scarborough Beach, Narragansett's Facility discharges into Rhode Island Sound. The facility, staffed by five fulltime operators, serves only a small portion of the town. In 1999 the RI DEM nominated and EPA subsequently awarded the town with an excellence award for the exemplary job the staff and town leaders have done in managing and operating the facility, especially in light of erratic loadings from local fish processors.



**Superintendent:**  
**Address:**

**Doug Nettleton**  
**Narragansett Town Hall**  
**25 Fifth Ave., P.O. Box 777**  
**Narragansett, RI 02882**

**Telephone #:**  
**Fax #:**

**782-0682**  
**782-0681**



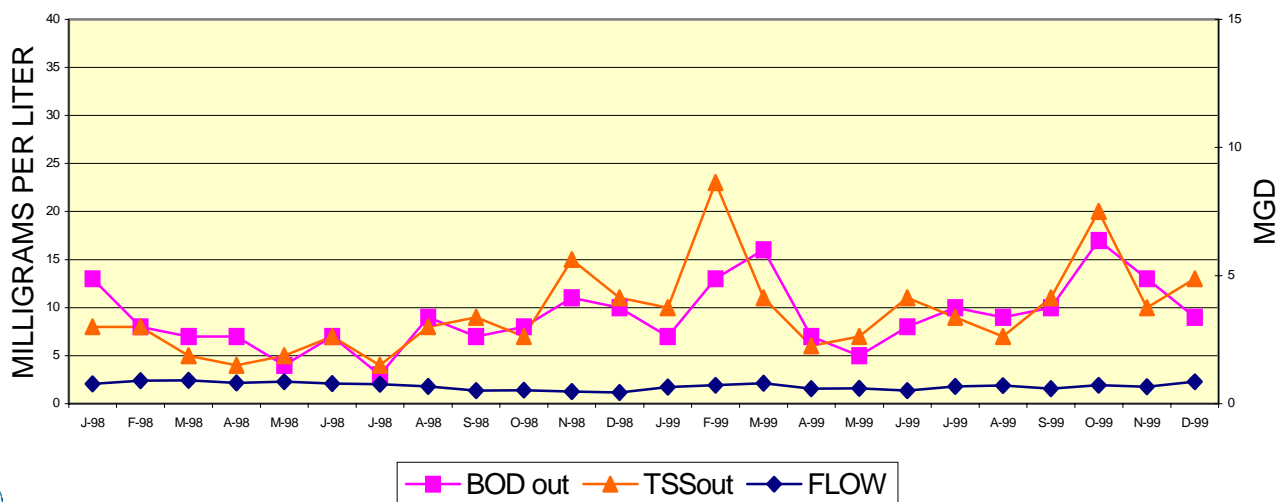
## Overall Treatment: Excellent

Having no monthly violations for flow, BOD, TSS or fecal coliform, Narragansett received a rating of Excellent.

### CURRENT AND FUTURE CONCERNS

On March 29, 2000, RIDEM reissued Narragansett's discharge permit. The permit will become effective on May 1, 2000. The facility is in compliance with all water quality based limits. There are no nutrient issues associated with this facility.

### NARRAGANSETT EFFLUENT DATA - 1998/1999



# BEGAN OPERATION 1965

## ANNUAL SURVEY

PARAMETER	1996	1997	1998	1999	PERMIT LIMIT	VIOLATIONS 1998/1999
FLOW (MGD)	0.7	0.6	0.7	0.7	1.4	0/0
BOD INFLUENT (MG/L)	179.5	248.9	233.1	303.6		
BOD EFFLUENT (MG/L)	14.3	19.2	7.8	10.3	30	0/0
BOD INFLUENT (LBS./DAY)	1073.5	1179.8	1316.0	1654.3		
BOD EFFLUENT (LBS./DAY)	86.6	95.2	44.6	59.4		
BOD % REMOVAL	91.6	91.3	96.6	96.6		
TSS INFLUENT (MG/L)	132.9	150.8	141.1	201.9		
TSS EFFLUENT (MG/L)	9.2	10.7	7.6	11.5	30	0/0
TSS INFLUENT (LBS./DAY)	791.8	724.1	781.3	1112.2		
TSS EFFLUENT (LBS./DAY)	55.6	52.7	41.5	66.0		
TSS % REMOVAL	92.5	92.3	94.7	94.1		
FECAL COLIFORM (MPN/100ML)	5.4	5.4	4.8	11.3	200.0	0/0
CHLORINE RESIDUAL (MG/L)			0.045	0.03	0.325*	0/0

\*Daily Maximum Limit

## Operations & Maintenance

This facility has experienced occasional odor problems related to industrial slug loads. The facility has added a variable frequency drive to aeration which helps control dissolved oxygen and at the same time save energy. The Town has also required that fish processing facilities reduce the waste discharged to the sewer system. The collection system was upgraded with the lining of 5600 feet of failed sewer line.

1998 O&M Rating: 10 out of 10

1999 O&M Rating: 10 out of 10

1998 Laboratory Rating: 5 out of 5

1999 Laboratory Rating: 5 out of 5

**Overall O&M Rating: Excellent**

### 1998 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

### SLUDGE PRODUCED

104 DRY TONS

### 1999 SLUDGE DISPOSAL METHOD

Incineration (NETCO)

### SLUDGE PRODUCED

135 DRY TONS

Sludge generated by the facility is transported in liquid form to the NETCO-operated incinerator in Woonsocket for disposal.

## NARRAGANSETT 1986-1999 DATA

